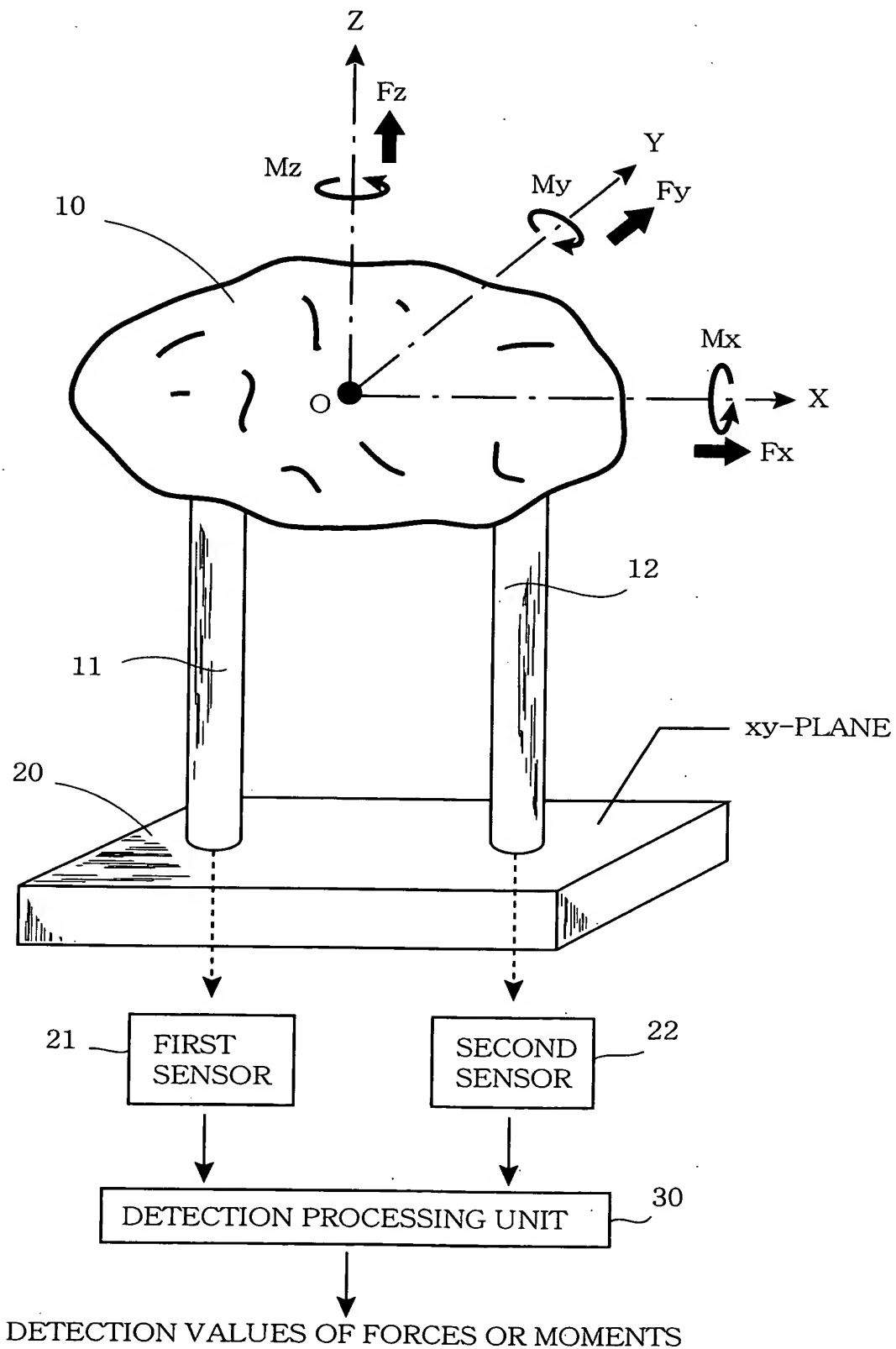


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Fig.1



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Fig.2A

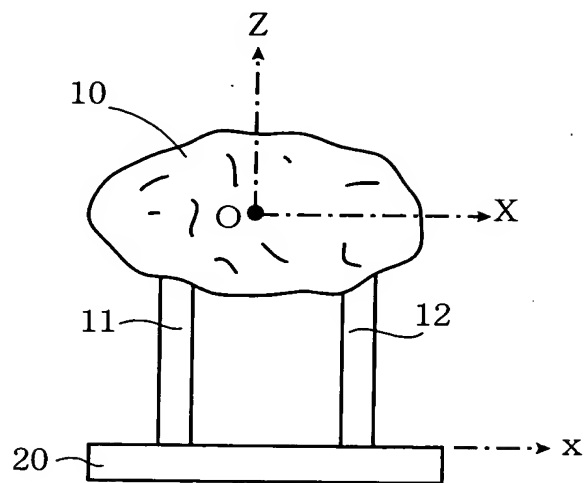


Fig.2B

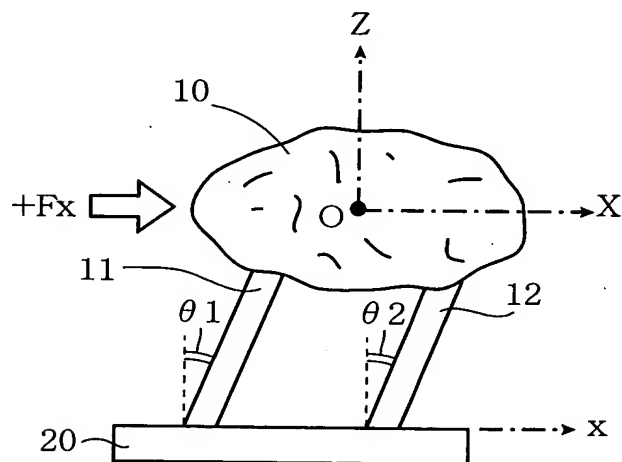
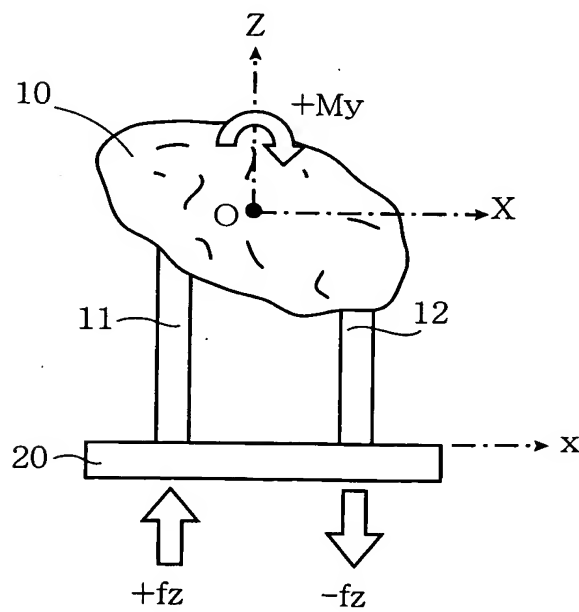


Fig.2C



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Fig.3

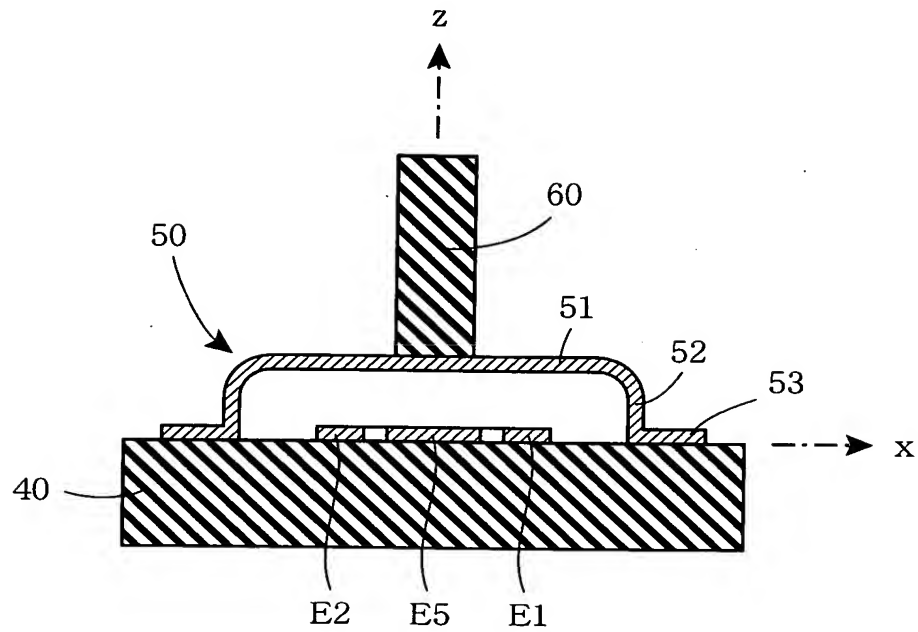
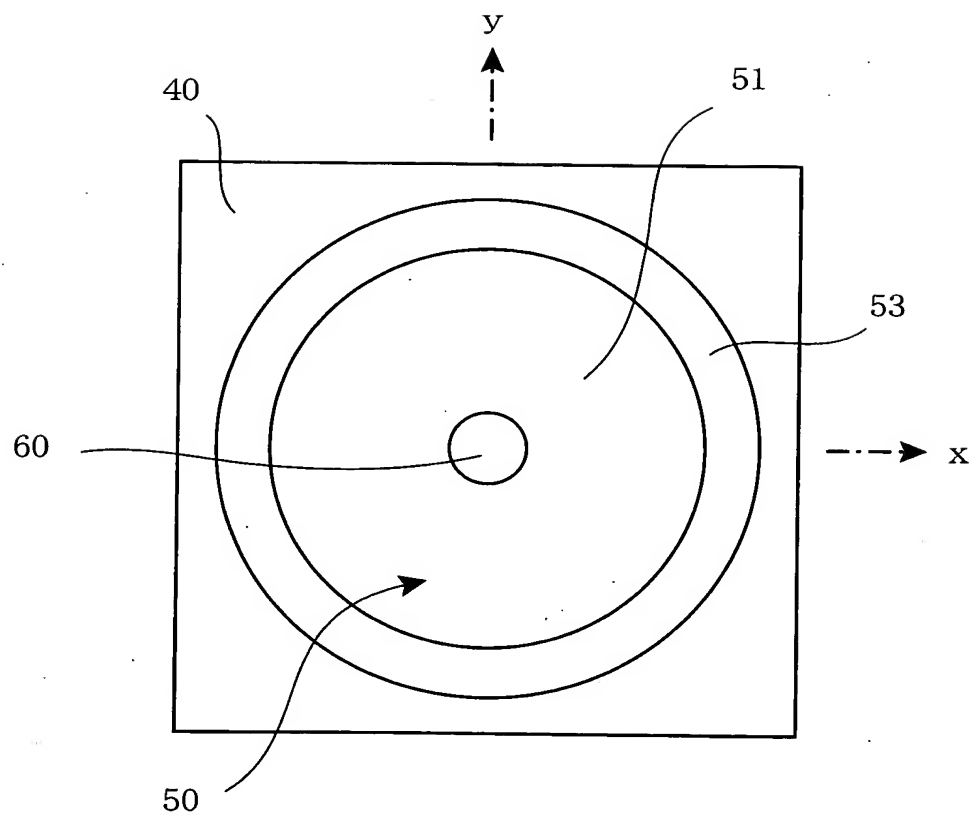


Fig.4



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Fig.5

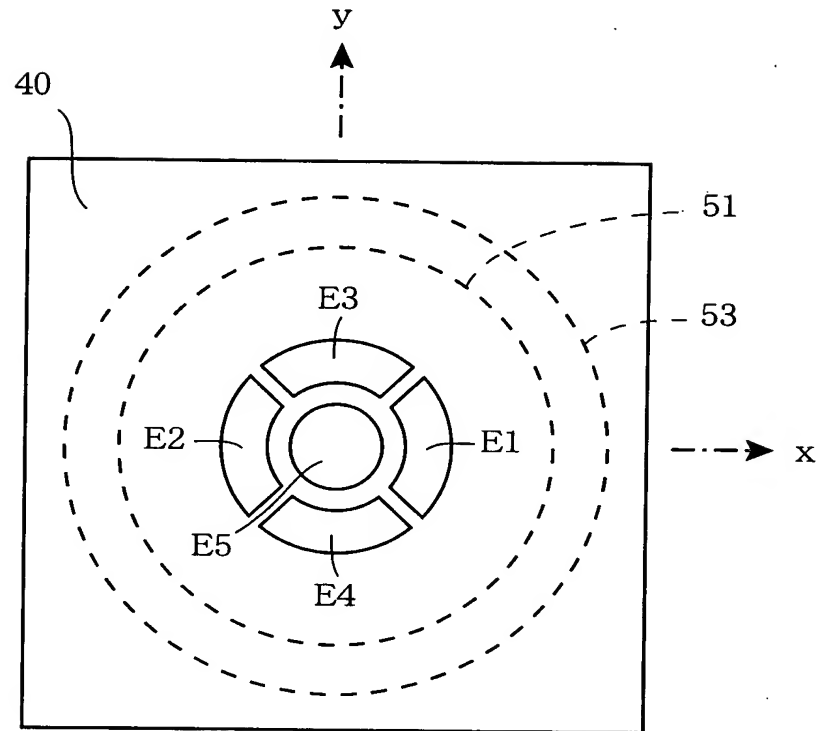
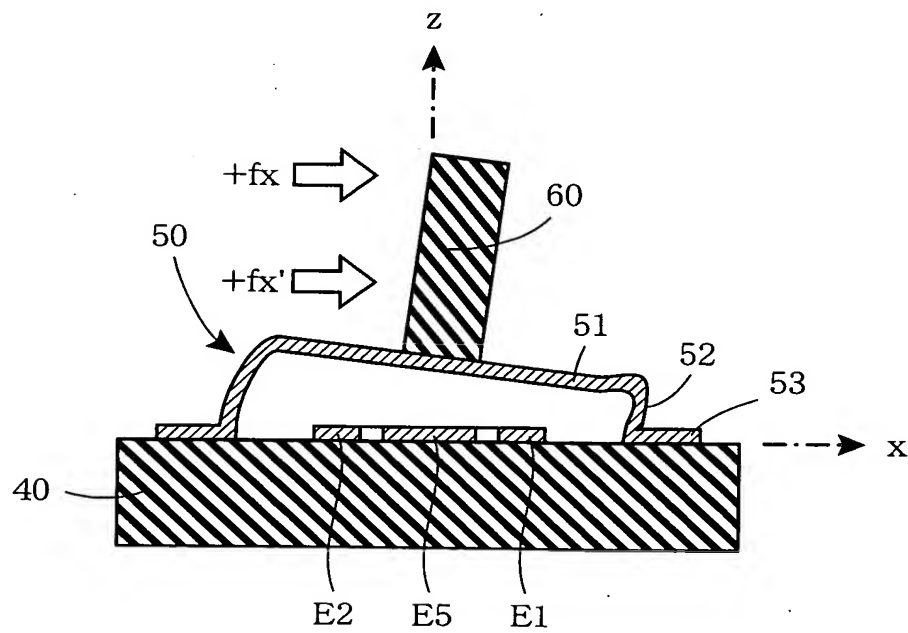


Fig.6



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Fig.7

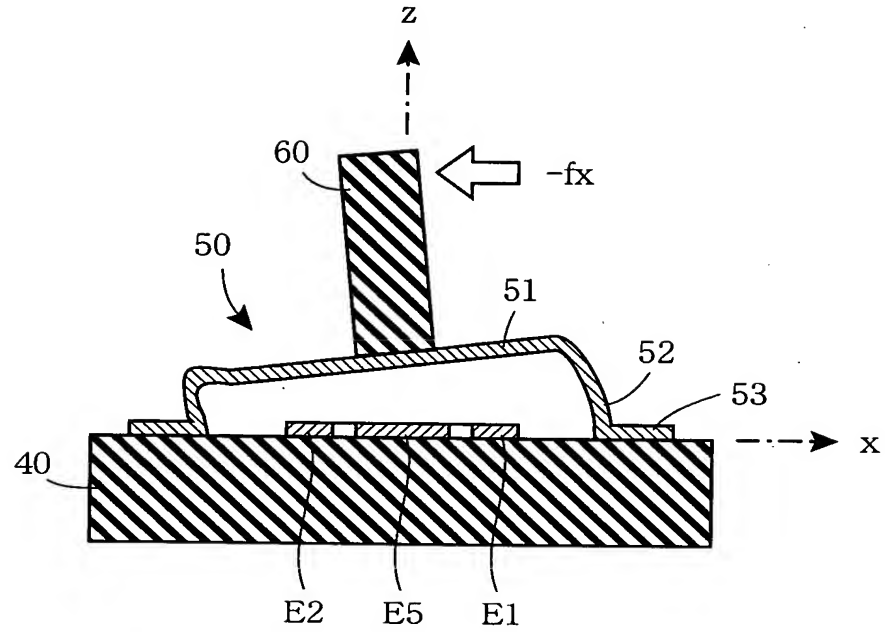
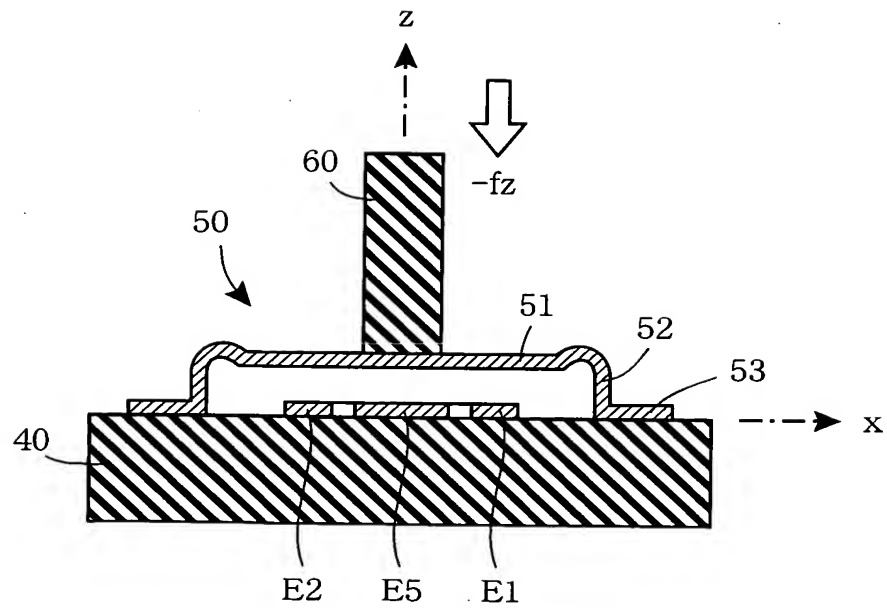
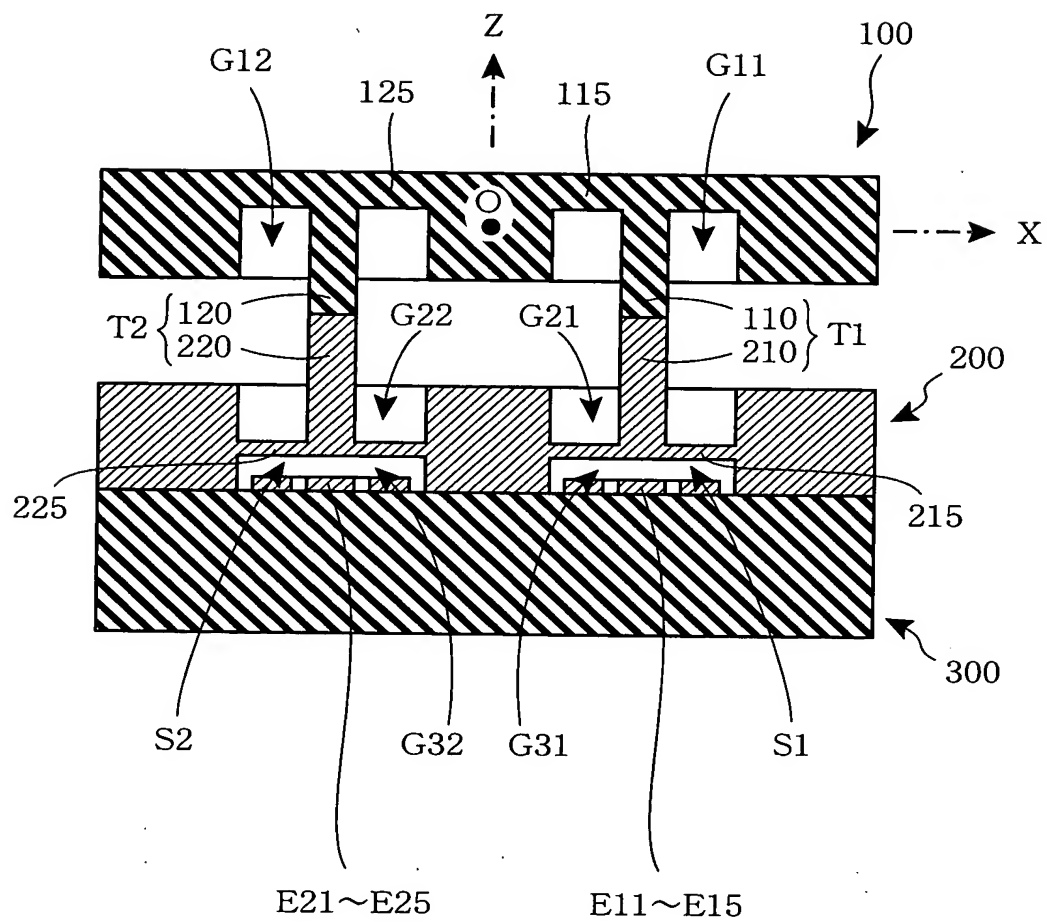


Fig.8



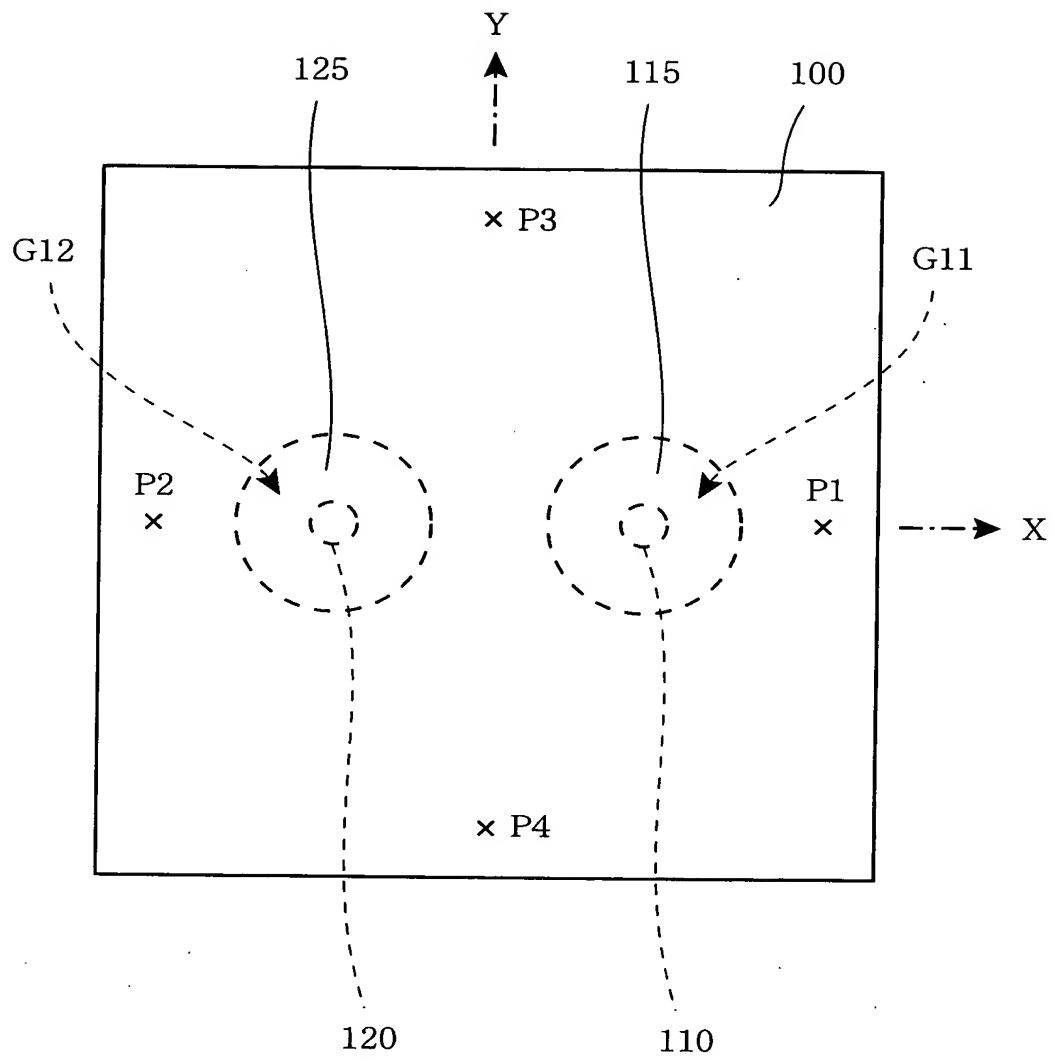
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Fig.9



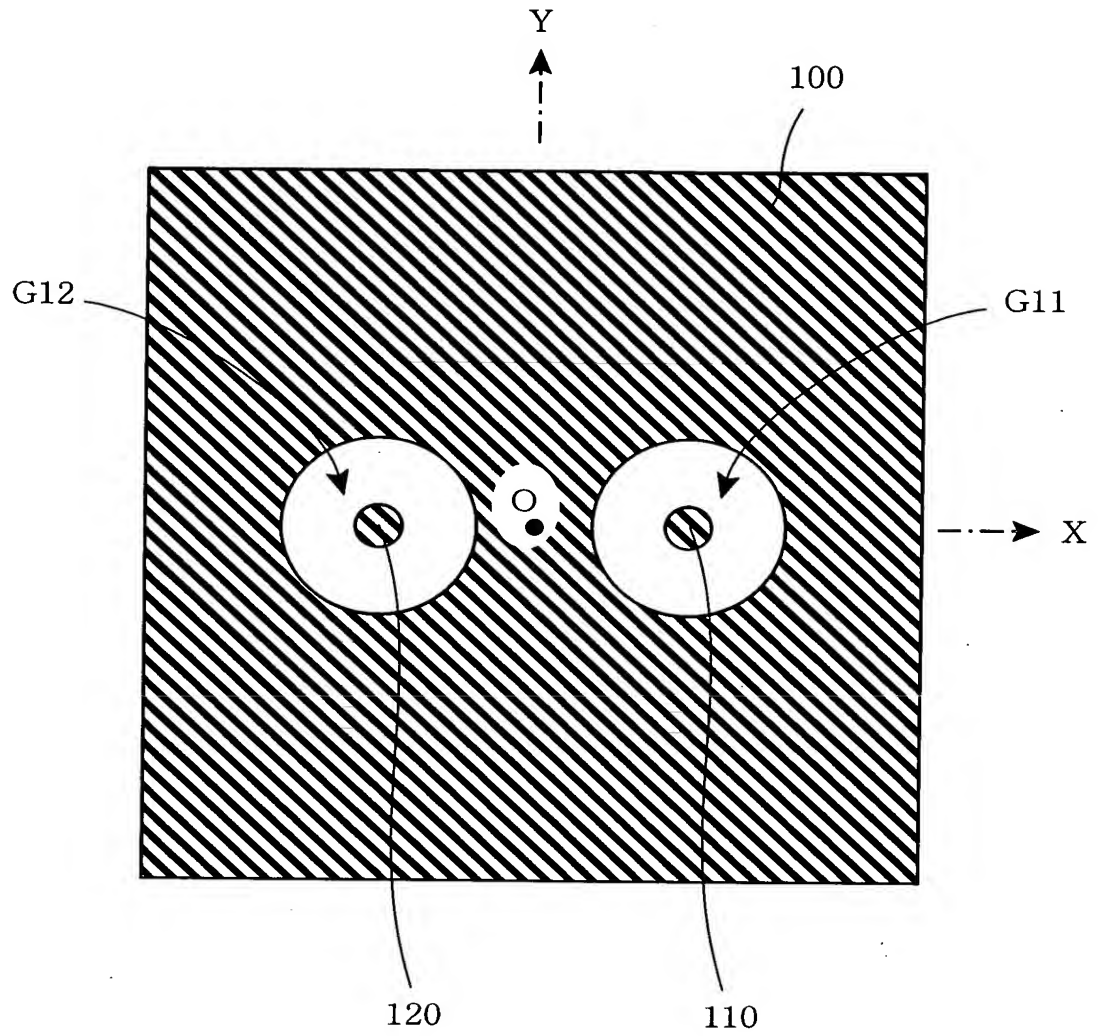
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Fig.10



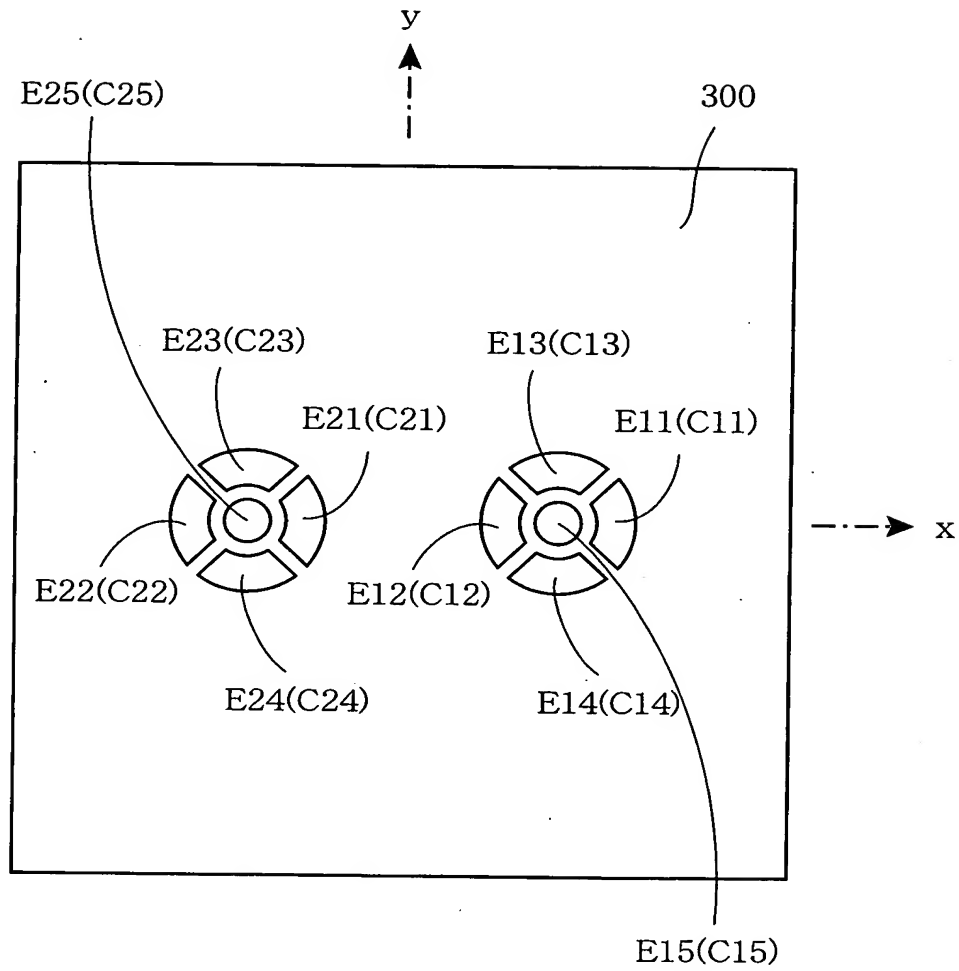
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Fig.11



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Fig.12



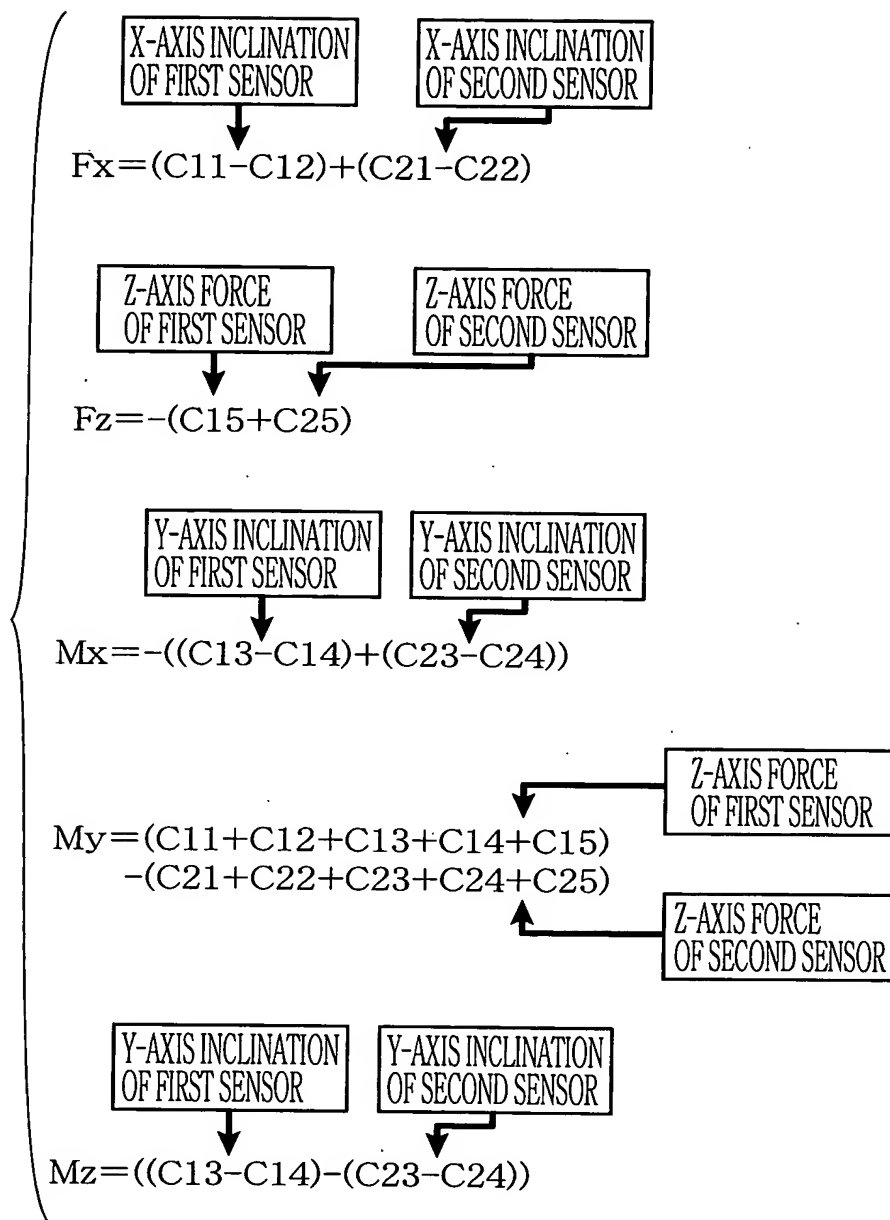
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Fig.13

	C11	C12	C13	C14	C15	C21	C22	C23	C24	C25
+Fx	+	-	0	0	0	+	-	0	0	0
-Fx	-	+	0	0	0	-	+	0	0	0
+Fz	-	-	-	-	-	-	-	-	-	-
-Fz	+	+	+	+	+	+	+	+	+	+
+Mx	0	0	-	+	0	0	0	-	+	0
-Mx	0	0	+	-	0	0	0	+	-	0
+My	+	+	+	+	+	-	-	-	-	-
-My	-	-	-	-	-	+	+	+	+	+
+Mz	0	0	+	-	0	0	0	-	+	0
-Mz	0	0	-	+	0	0	0	+	-	0

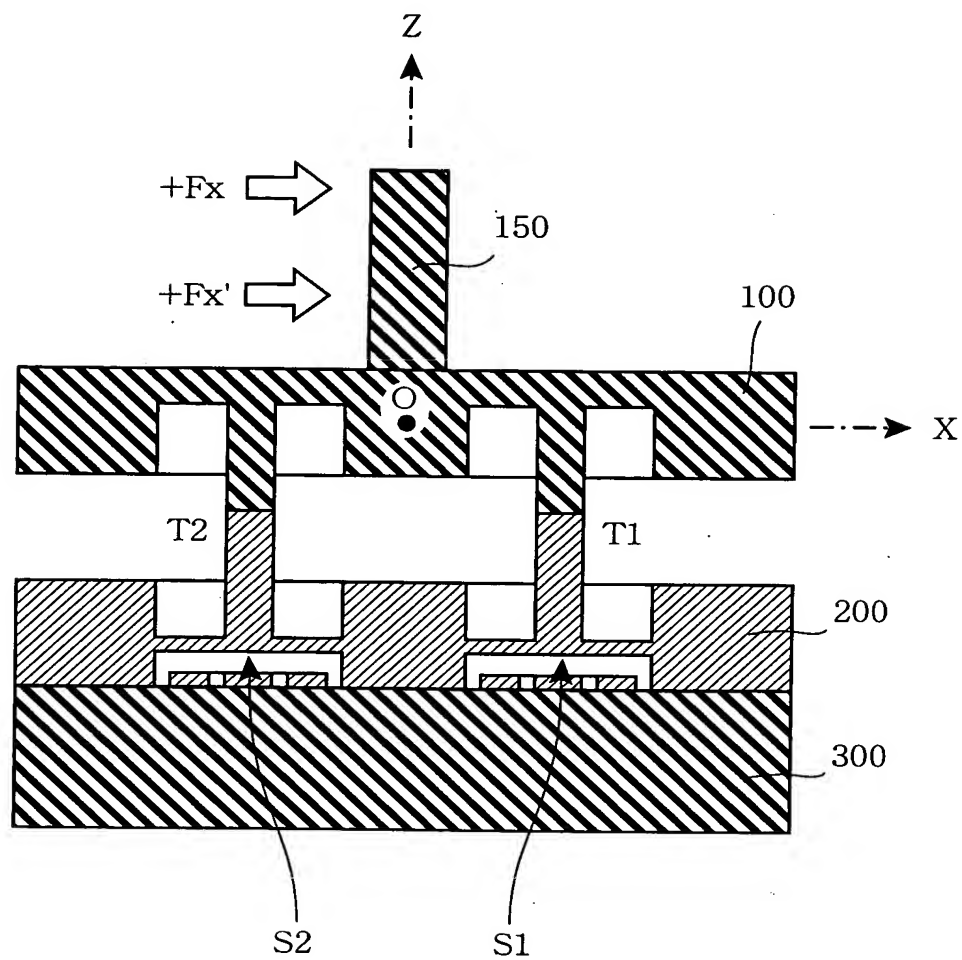
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Fig.14



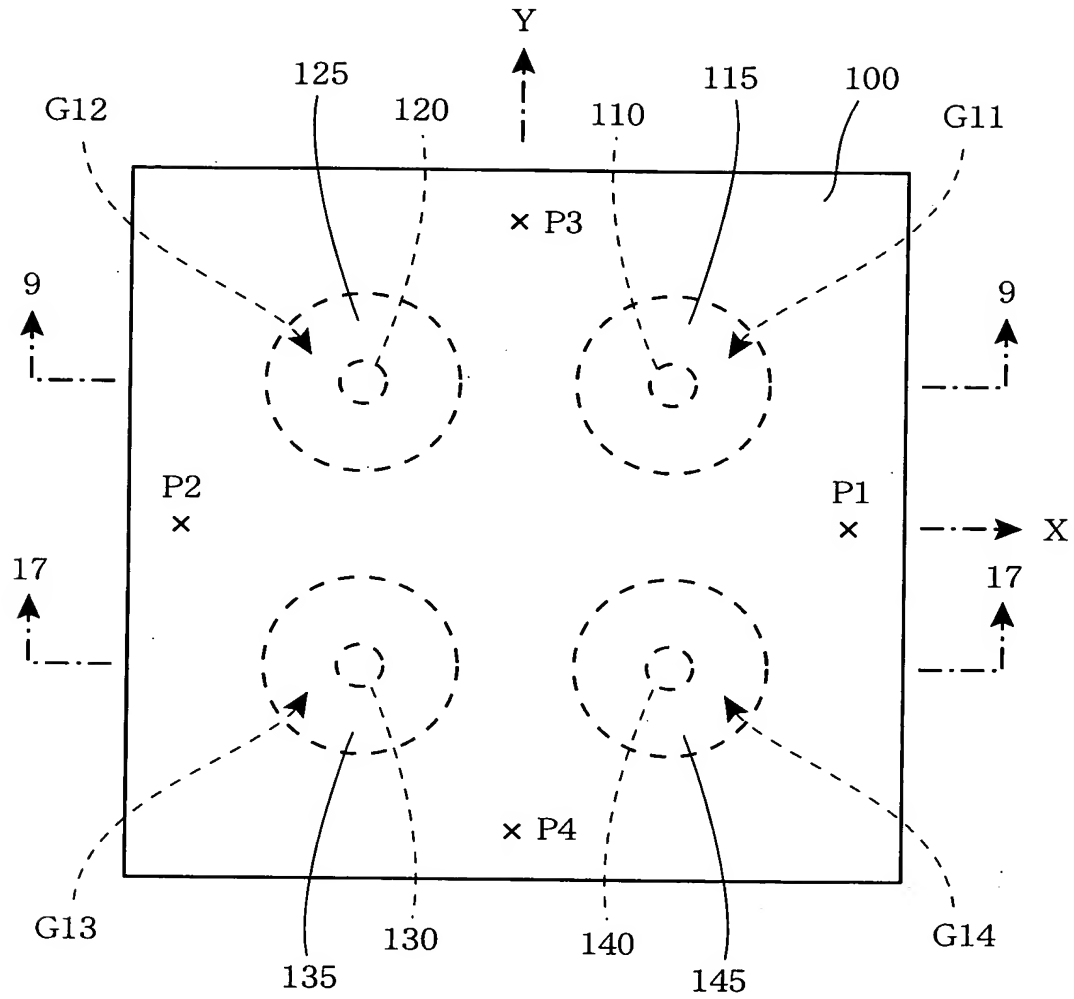
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Fig.15



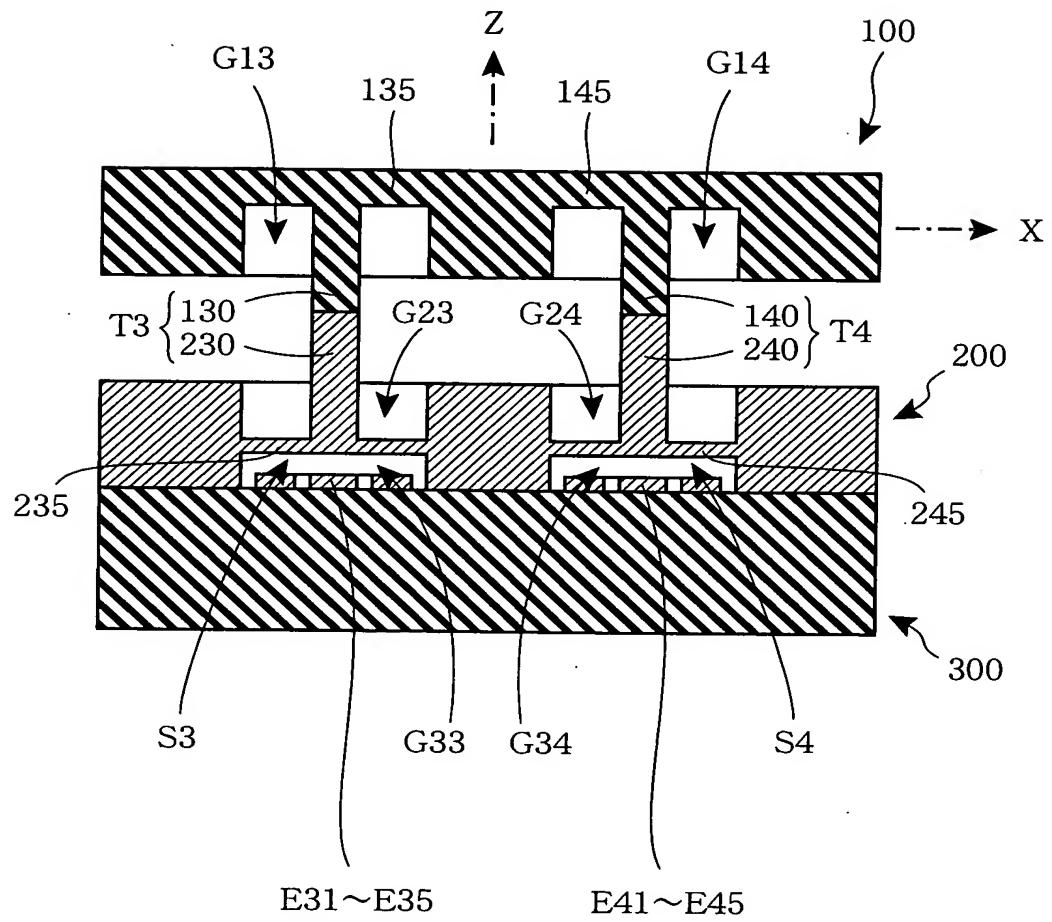
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Fig.16



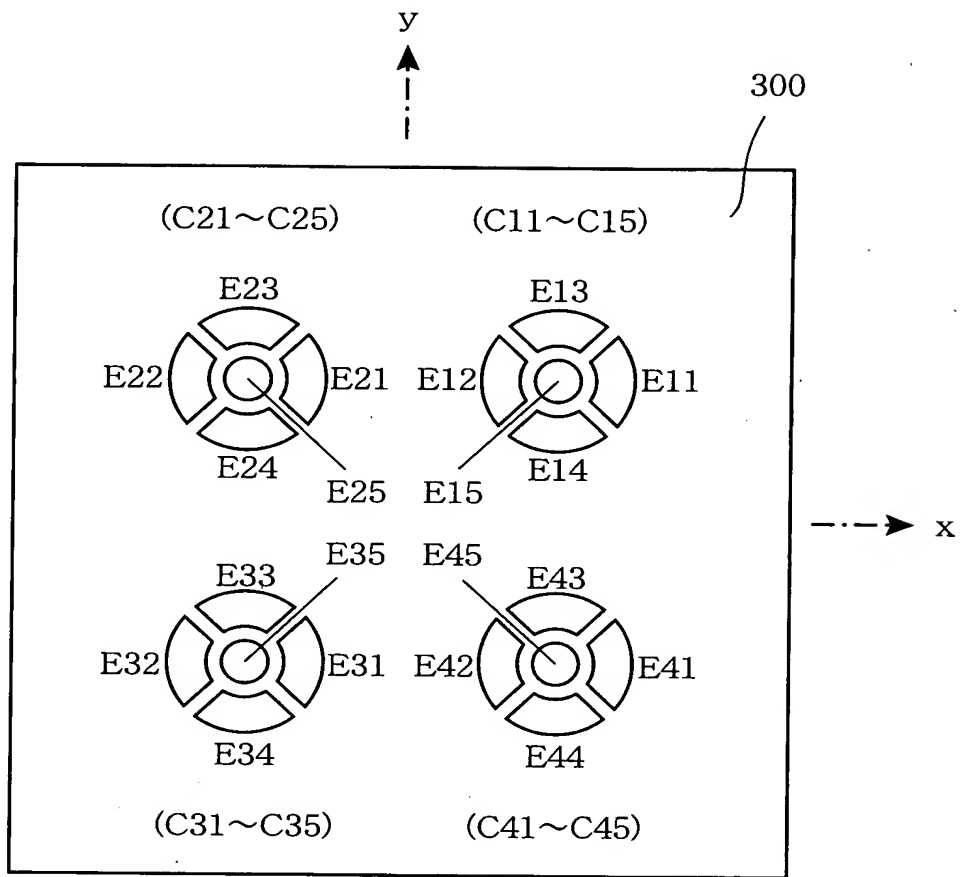
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Fig.17



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Fig.18



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	C11	C12	C13	C14	C15	C21	C22	C23	C24	C25
+Fx	+	-	0	0	0	+	-	0	0	0
+Fy	0	0	+	-	0	0	0	+	-	0
+Fz	-	-	-	-	-	-	-	-	-	-
+Mx	-	-	-	-	-	-	-	-	-	-
+My	+	+	+	+	+	-	-	-	-	-
+Mz	-	+	+	-	0	-	+	-	+	0

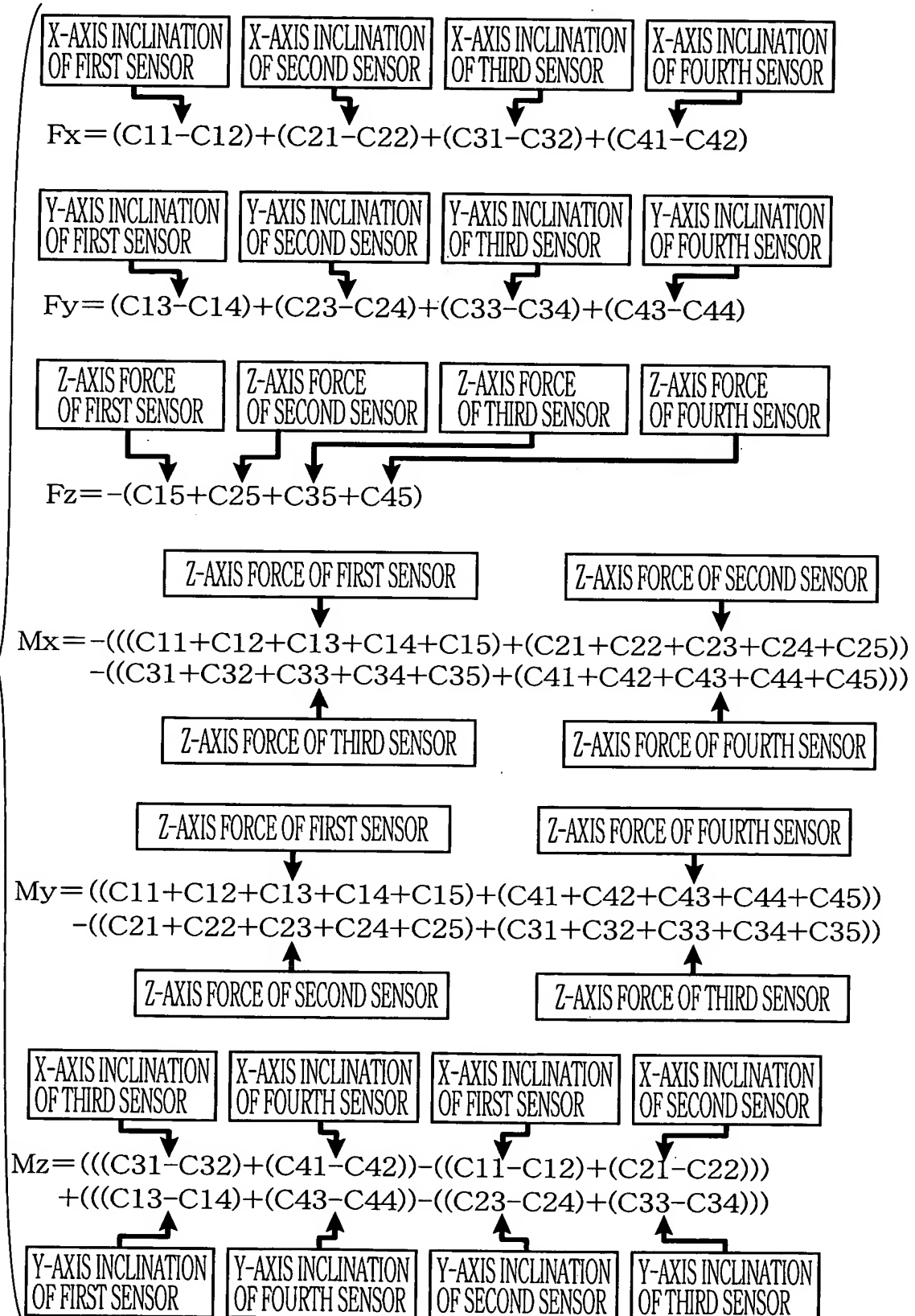
Fig.19A

	C31	C32	C33	C34	C35	C41	C42	C43	C44	C45
+Fx	+	-	0	0	0	+	-	0	0	0
+Fy	0	0	+	-	0	0	0	+	-	0
+Fz	-	-	-	-	-	-	-	-	-	-
+Mx	+	+	+	+	+	+	+	+	+	+
+My	-	-	-	-	-	+	+	+	+	+
+Mz	+	-	-	+	0	+	-	+	-	0

Fig.19B

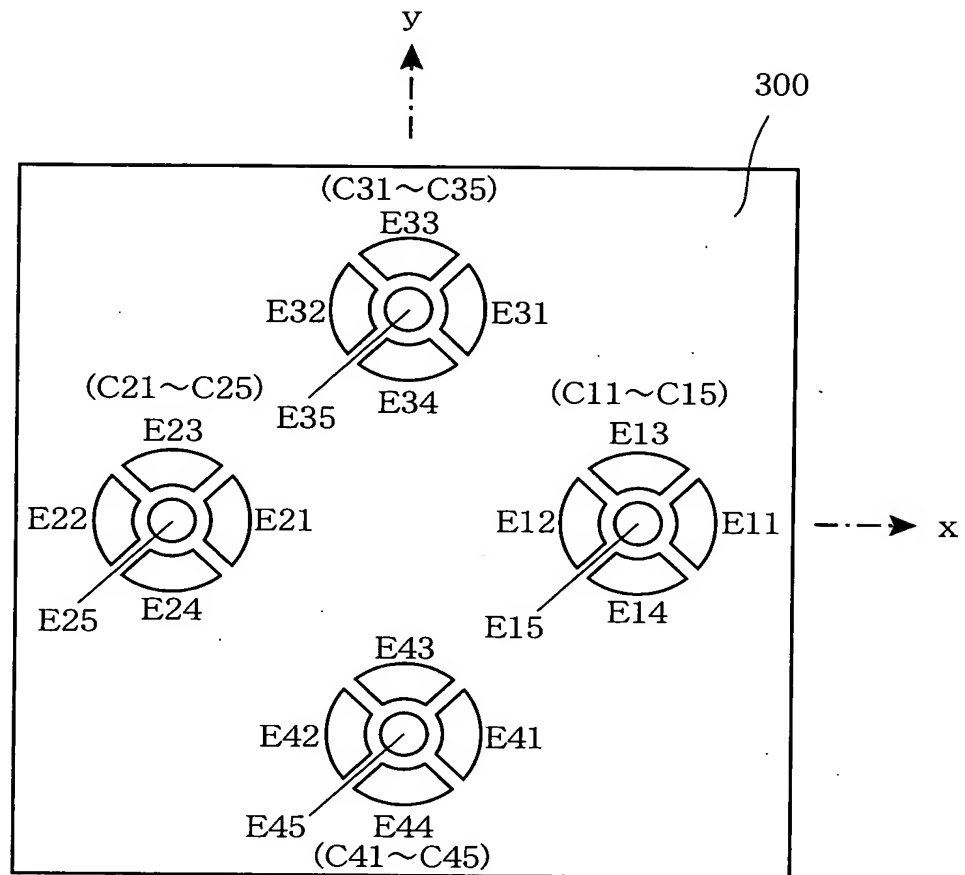
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Fig.20



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Fig.21



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	C11	C12	C13	C14	C15	C21	C22	C23	C24	C25
+Fx	+	-	0	0	0	+	-	0	0	0
+Fy	0	0	+	-	0	0	0	+	-	0
+Fz	-	-	-	-	-	-	-	-	-	-
+Mx	0	0	0	0	0	0	0	0	0	0
+My	+	+	+	+	+	-	-	-	-	-
+Mz	0	0	+	-	0	0	0	-	+	0

Fig.22A

	C31	C32	C33	C34	C35	C41	C42	C43	C44	C45
+Fx	+	-	0	0	0	+	-	0	0	0
+Fy	0	0	+	-	0	0	0	+	-	0
+Fz	-	-	-	-	-	-	-	-	-	-
+Mx	-	-	-	-	-	+	+	+	+	+
+My	0	0	0	0	0	0	0	0	0	0
+Mz	-	+	0	0	0	+	-	0	0	0

Fig.22B

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Fig.23

X-AXIS INCLINATION
OF FIRST SENSOR X-AXIS INCLINATION
OF SECOND SENSOR X-AXIS INCLINATION
OF THIRD SENSOR X-AXIS INCLINATION
OF FOURTH SENSOR

$$F_x = (C_{11} - C_{12}) + (C_{21} - C_{22}) + (C_{31} - C_{32}) + (C_{41} - C_{42})$$

Y-AXIS INCLINATION
OF FIRST SENSOR Y-AXIS INCLINATION
OF SECOND SENSOR Y-AXIS INCLINATION
OF THIRD SENSOR Y-AXIS INCLINATION
OF FOURTH SENSOR

$$F_y = (C_{13} - C_{14}) + (C_{23} - C_{24}) + (C_{33} - C_{34}) + (C_{43} - C_{44})$$

Z-AXIS FORCE
OF FIRST SENSOR Z-AXIS FORCE
OF SECOND SENSOR Z-AXIS FORCE
OF THIRD SENSOR Z-AXIS FORCE
OF FOURTH SENSOR

$$F_z = -(C_{15} + C_{25} + C_{35} + C_{45})$$

Z-AXIS FORCE OF FOURTH SENSOR

Z-AXIS FORCE OF THIRD SENSOR

$$M_x = (C_{41} + C_{42} + C_{43} + C_{44} + C_{45}) - (C_{31} + C_{32} + C_{33} + C_{34} + C_{35})$$

Z-AXIS FORCE OF FIRST SENSOR

Z-AXIS FORCE OF SECOND SENSOR

$$M_y = (C_{11} + C_{12} + C_{13} + C_{14} + C_{15}) - (C_{21} + C_{22} + C_{23} + C_{24} + C_{25})$$

Y-AXIS INCLINATION
OF FIRST SENSOR

X-AXIS INCLINATION
OF FOURTH SENSOR

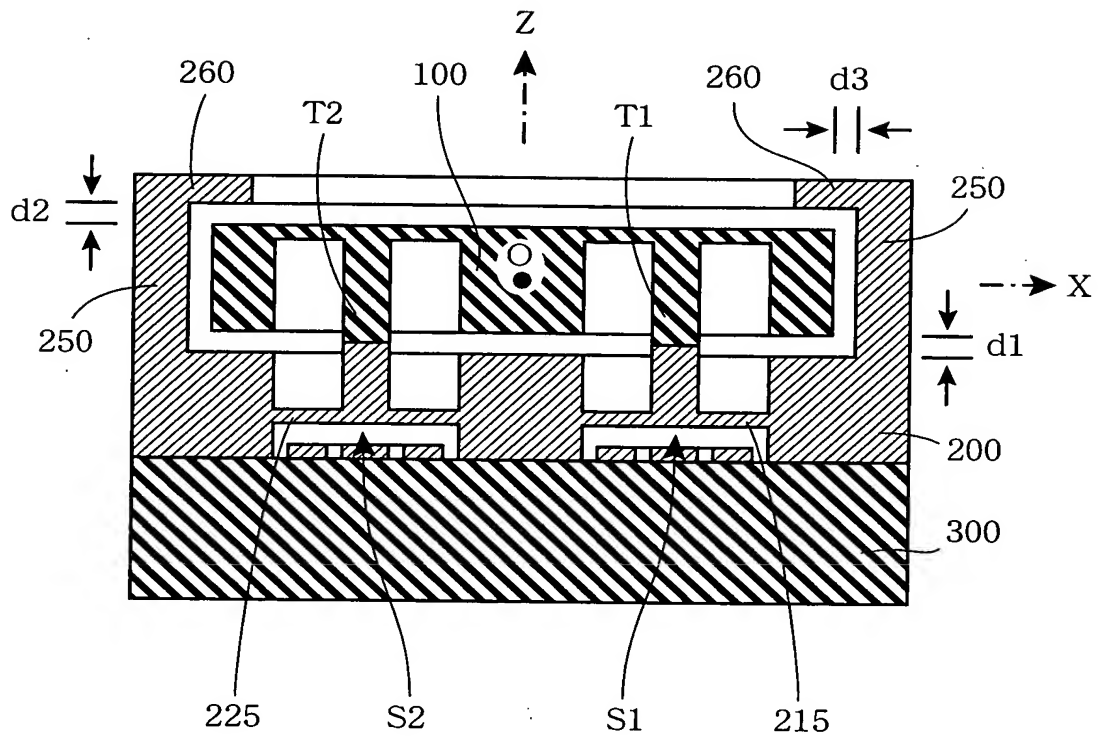
Y-AXIS INCLINATION
OF SECOND SENSOR

X-AXIS INCLINATION
OF THIRD SENSOR

$$M_z = ((C_{13} - C_{14}) + (C_{41} - C_{42})) - ((C_{23} - C_{24}) + (C_{31} - C_{32}))$$

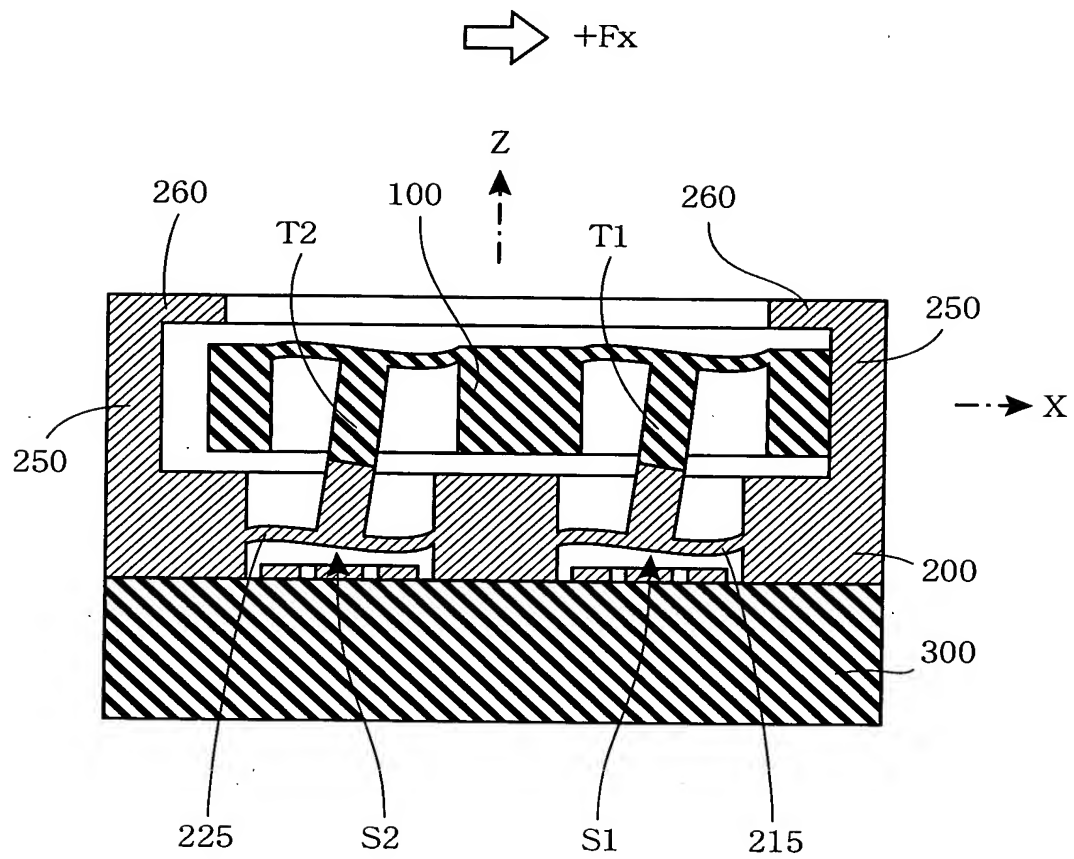
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Fig.24



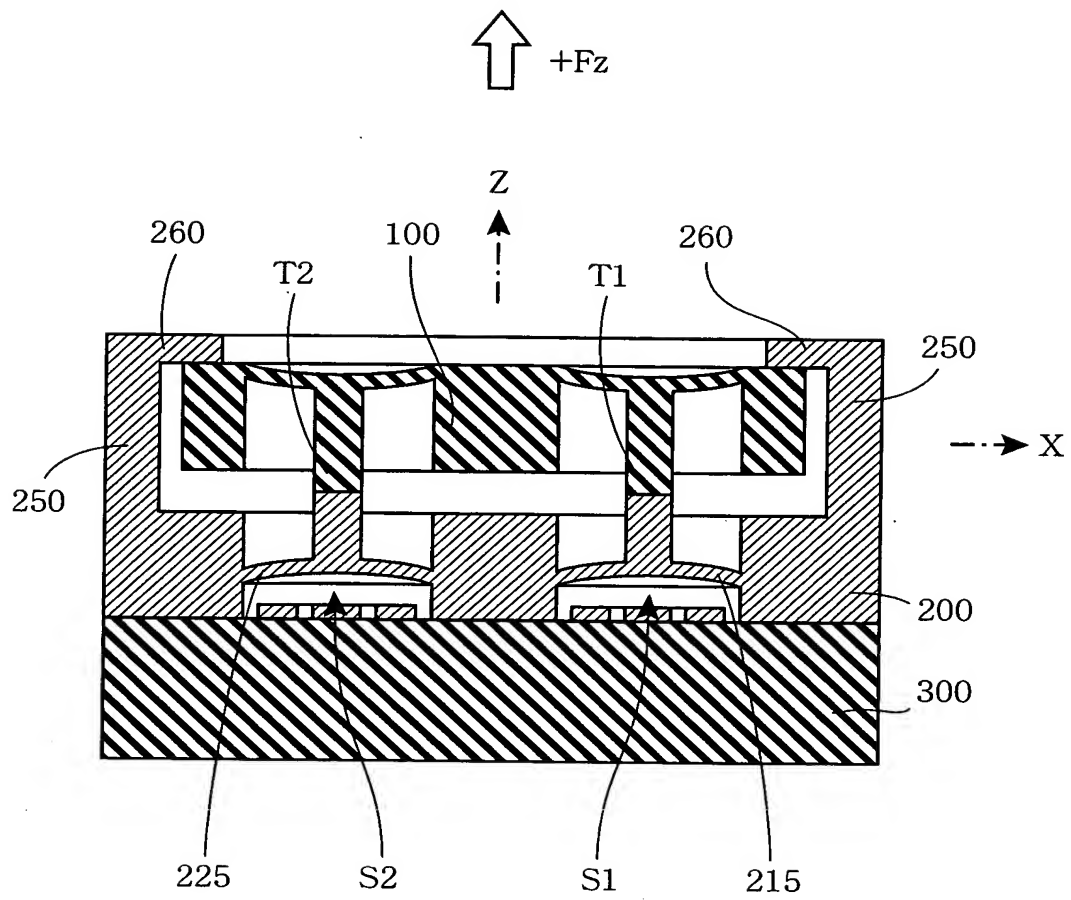
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Fig.25



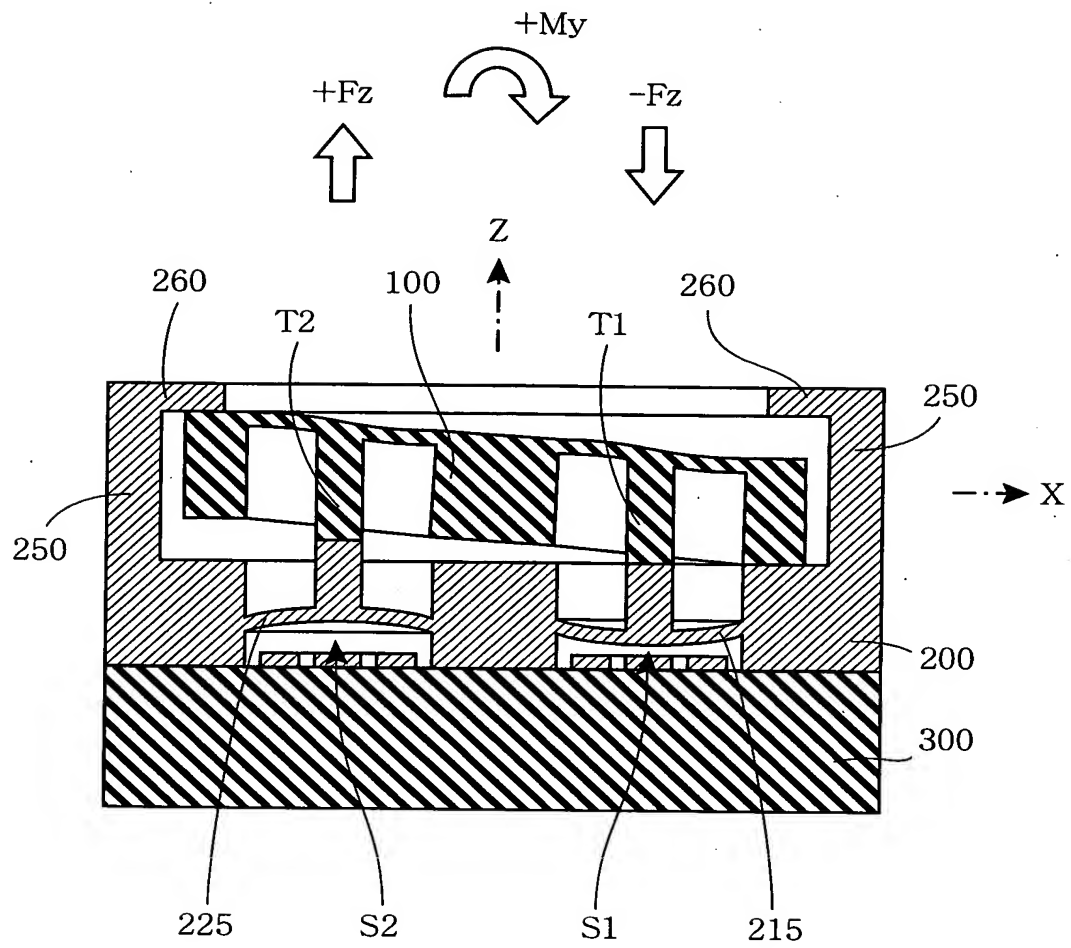
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Fig.26



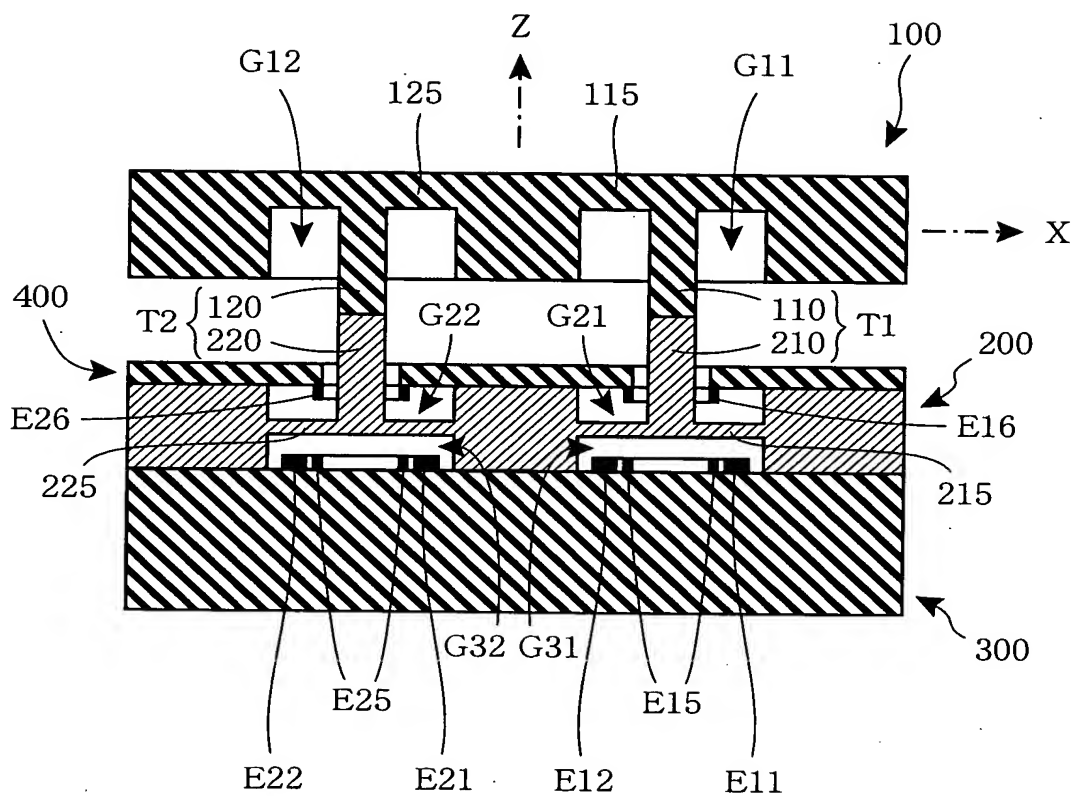
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Fig.27



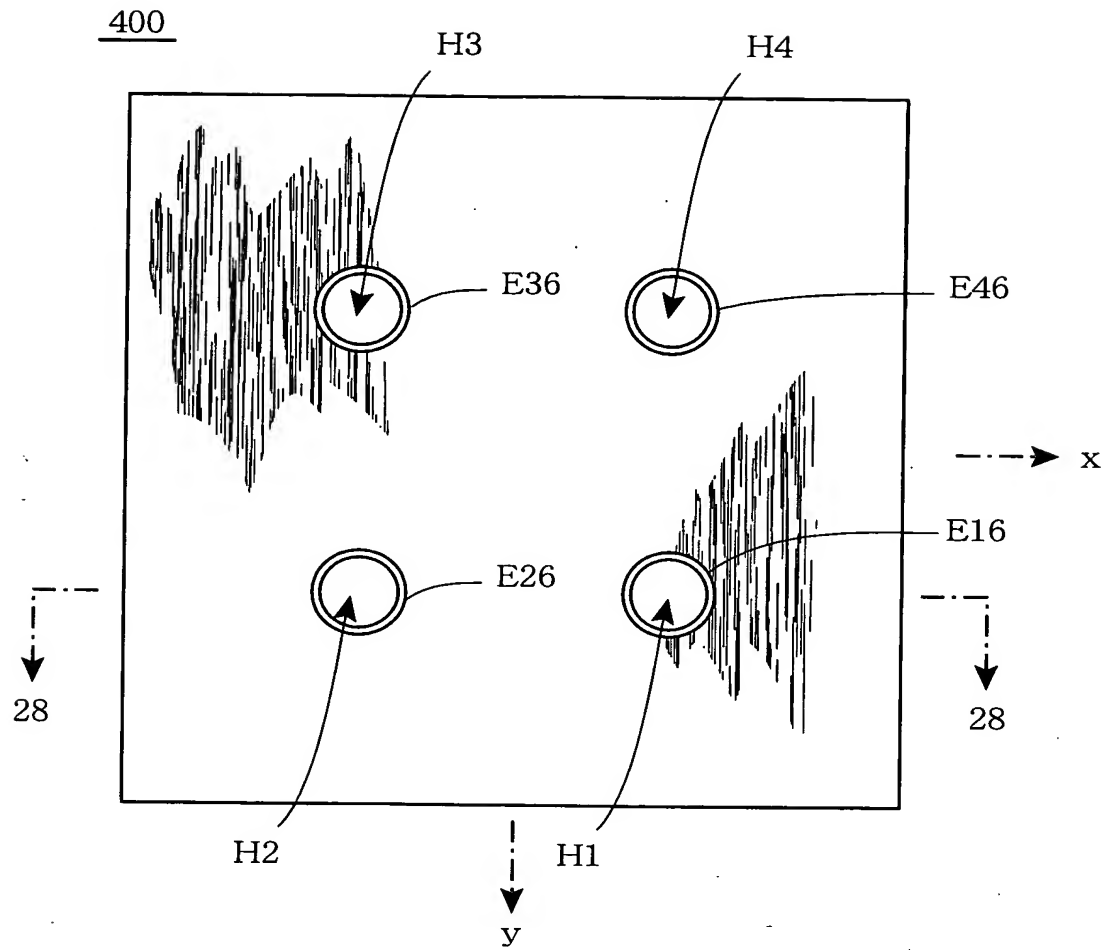
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Fig.28



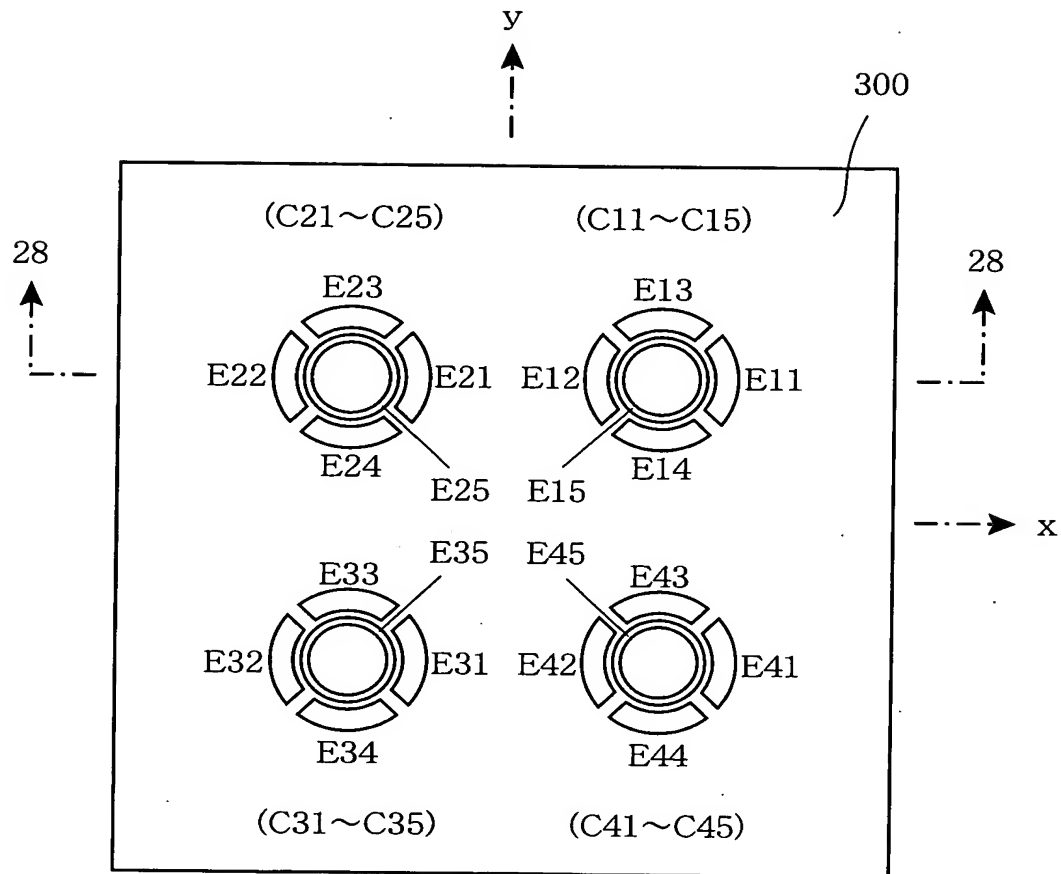
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Fig.29



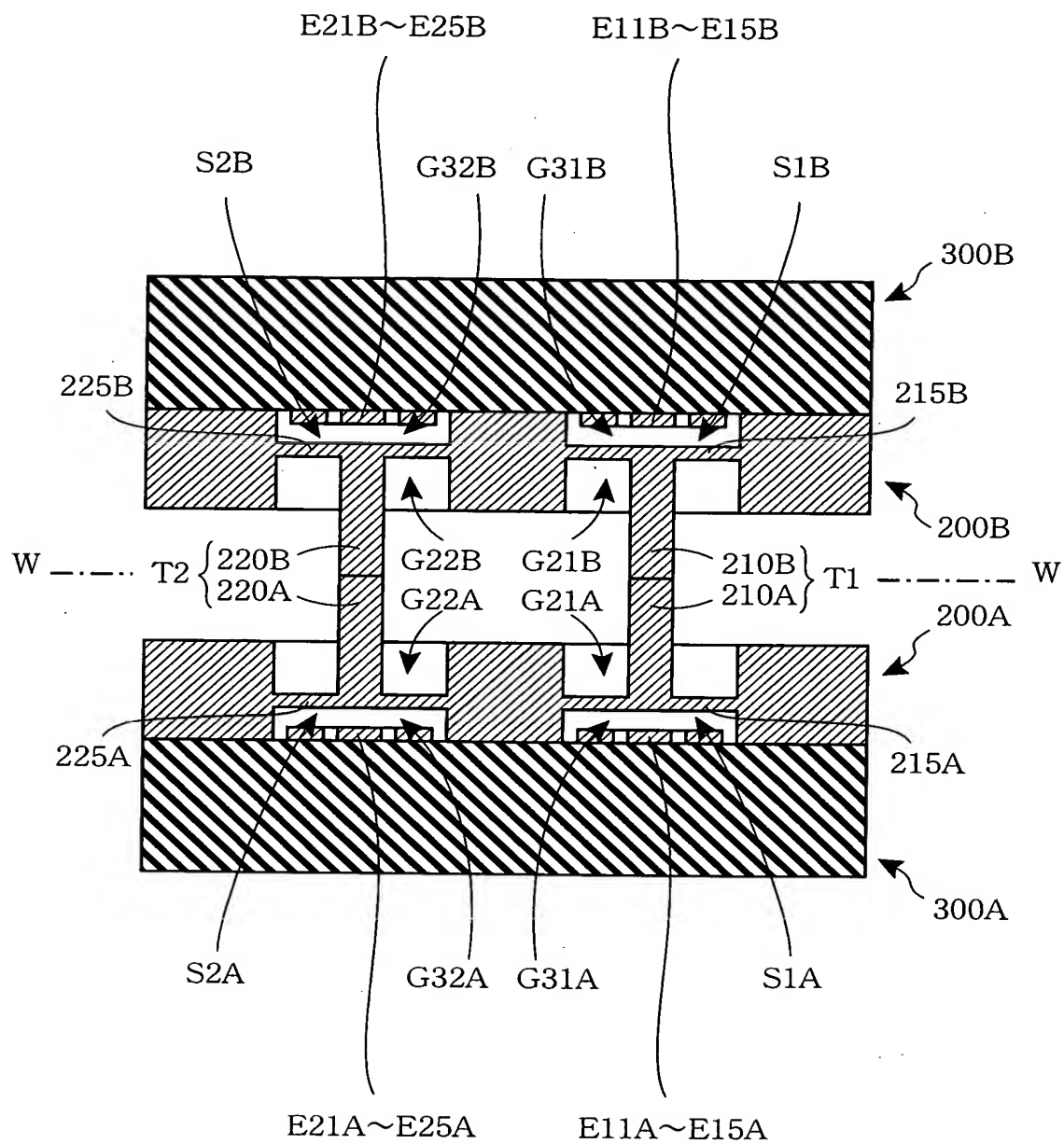
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Fig.30



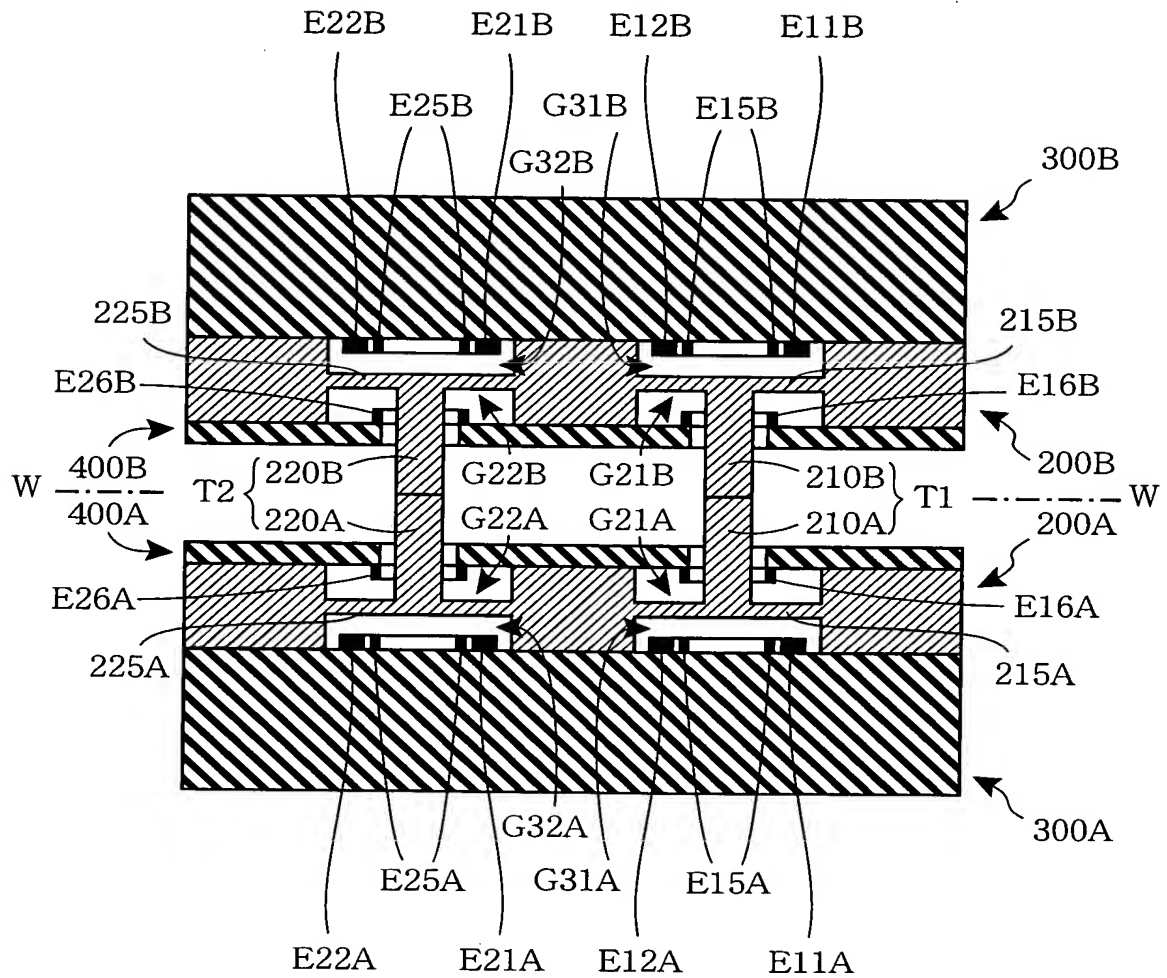
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Fig.31



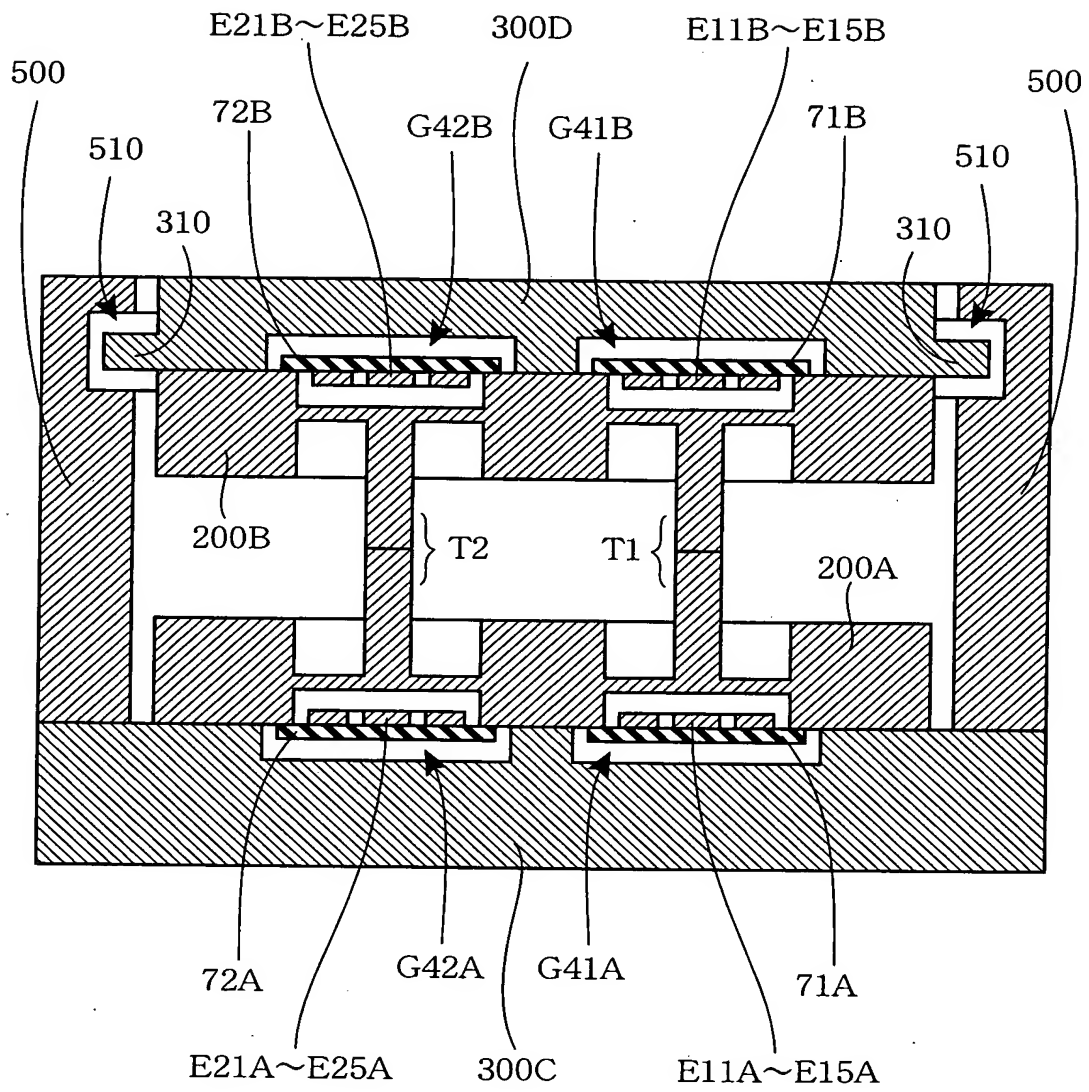
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Fig.32



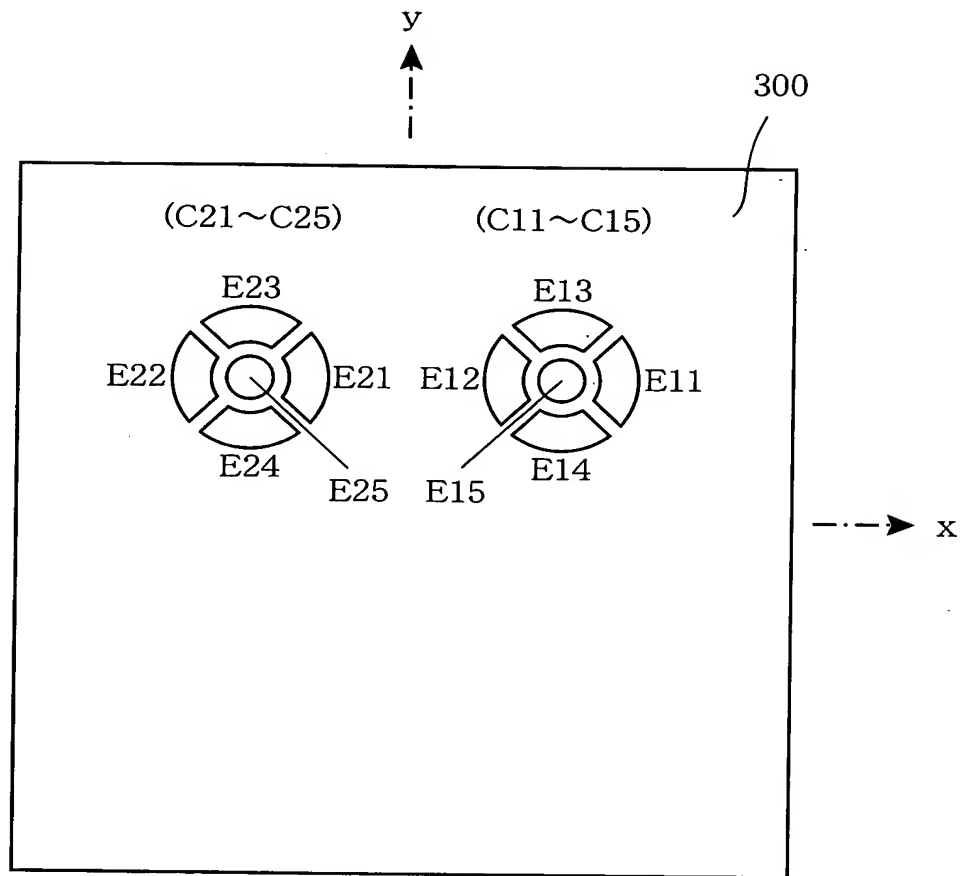
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Fig.33



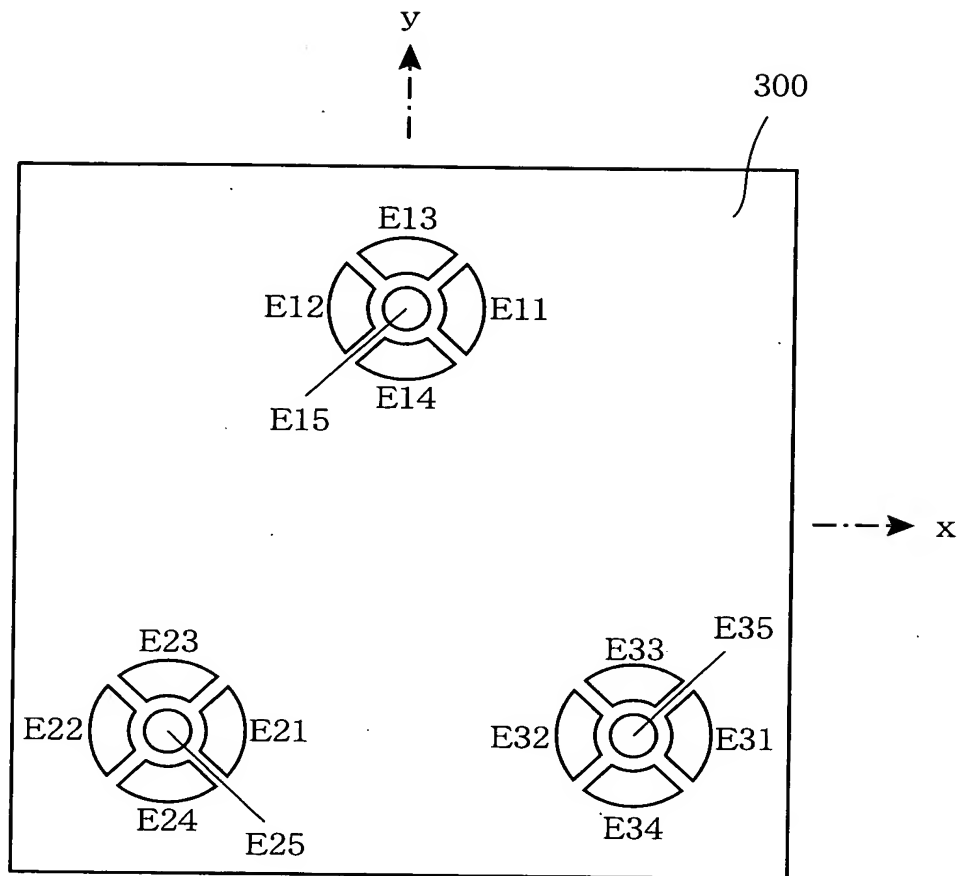
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Fig.34



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Fig.35



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	C11	C12	C13	C14	C15
+Fx	+	-	0	0	0
+Fy	0	0	+	-	0
+Fz	-	-	-	-	-
+Mx	-	-	-	-	-
+My	0	0	0	0	0
+Mz	-	+	0	0	0

Fig.36A

	C21	C22	C23	C24	C25	C31	C32	C33	C34	C35
+Fx	+	-	0	0	0	+	-	0	0	0
+Fy	0	0	+	-	0	0	0	+	-	0
+Fz	-	-	-	-	-	-	-	-	-	-
+Mx	+	+	+	+	+	+	+	+	+	+
+My	-	-	-	-	-	+	+	+	+	+
+Mz	+	-	-	+	0	+	-	+	-	0

Fig.36B

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Fig.37

